

FIG. 1

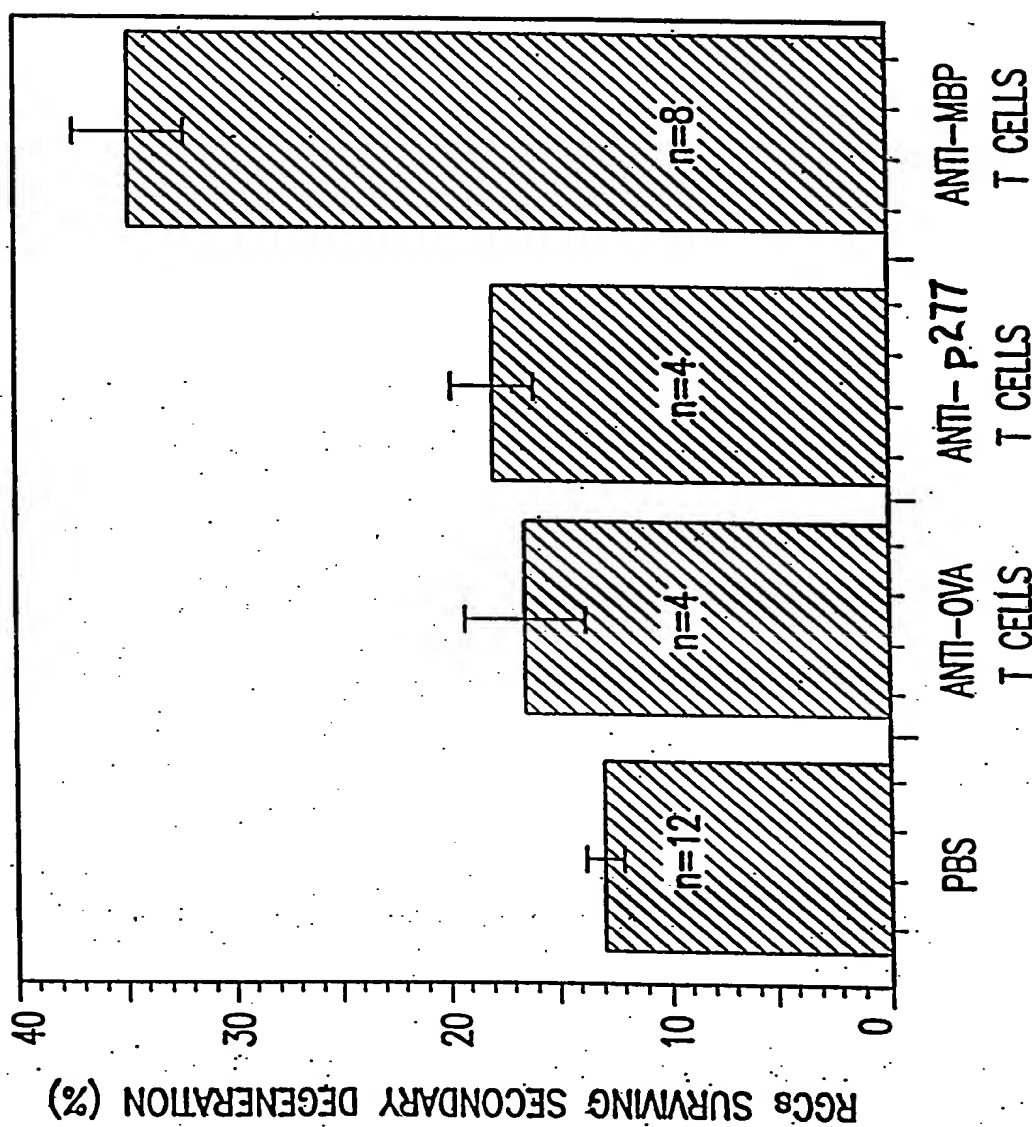


FIG. 2



FIG. 3A

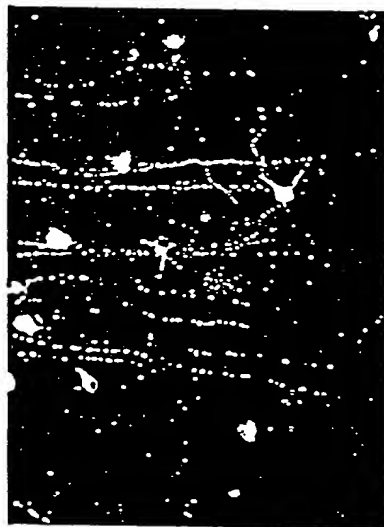
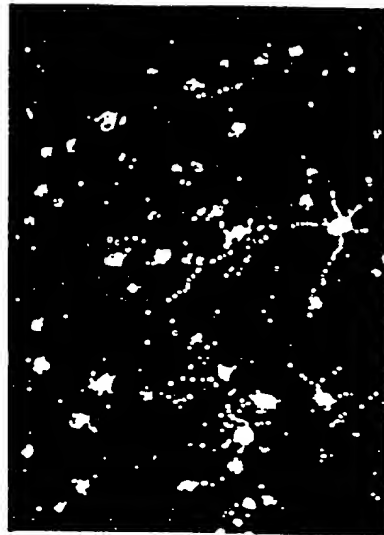


FIG. 3B



160 μ m

FIG. 3C

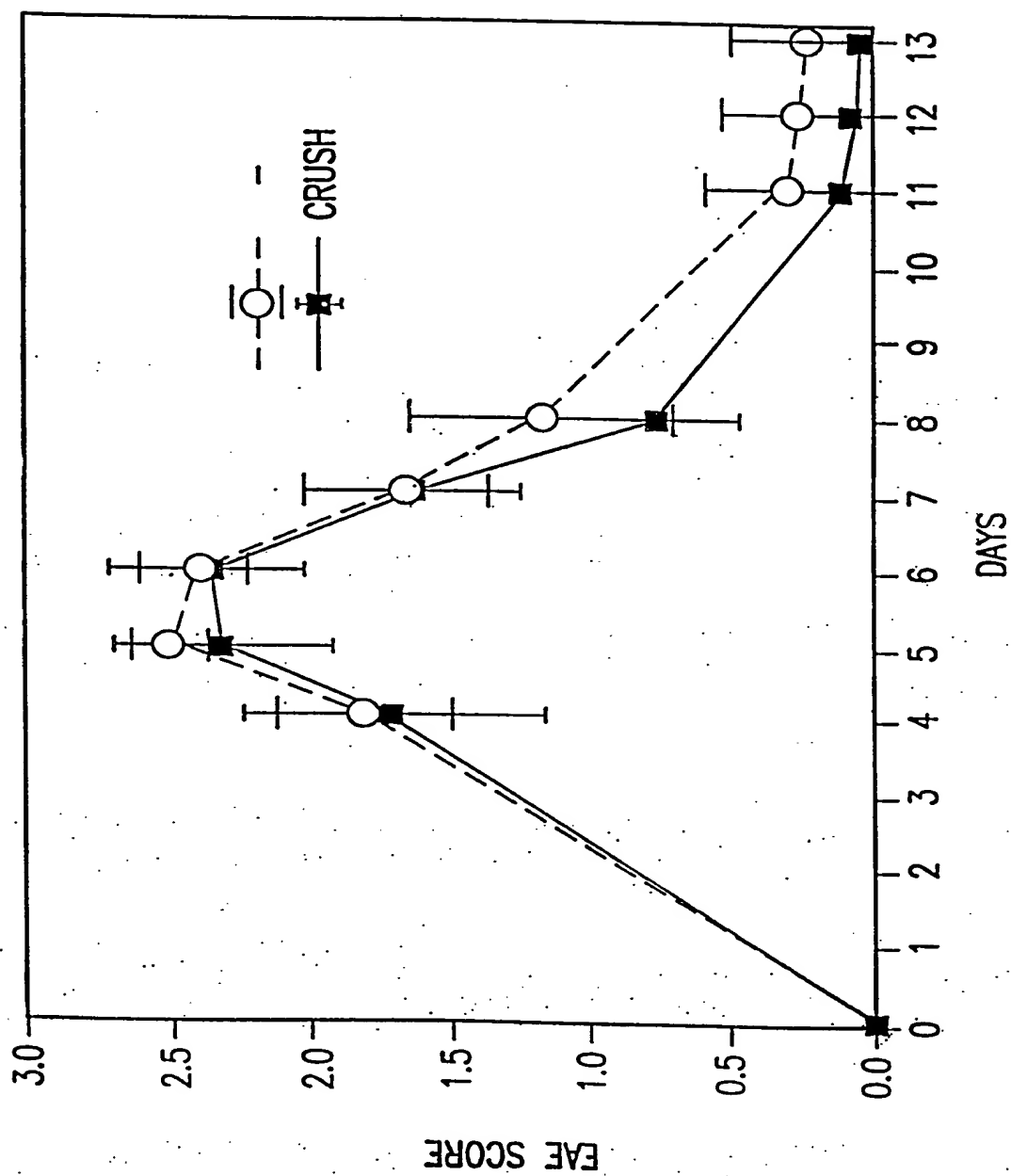


FIG. 4A

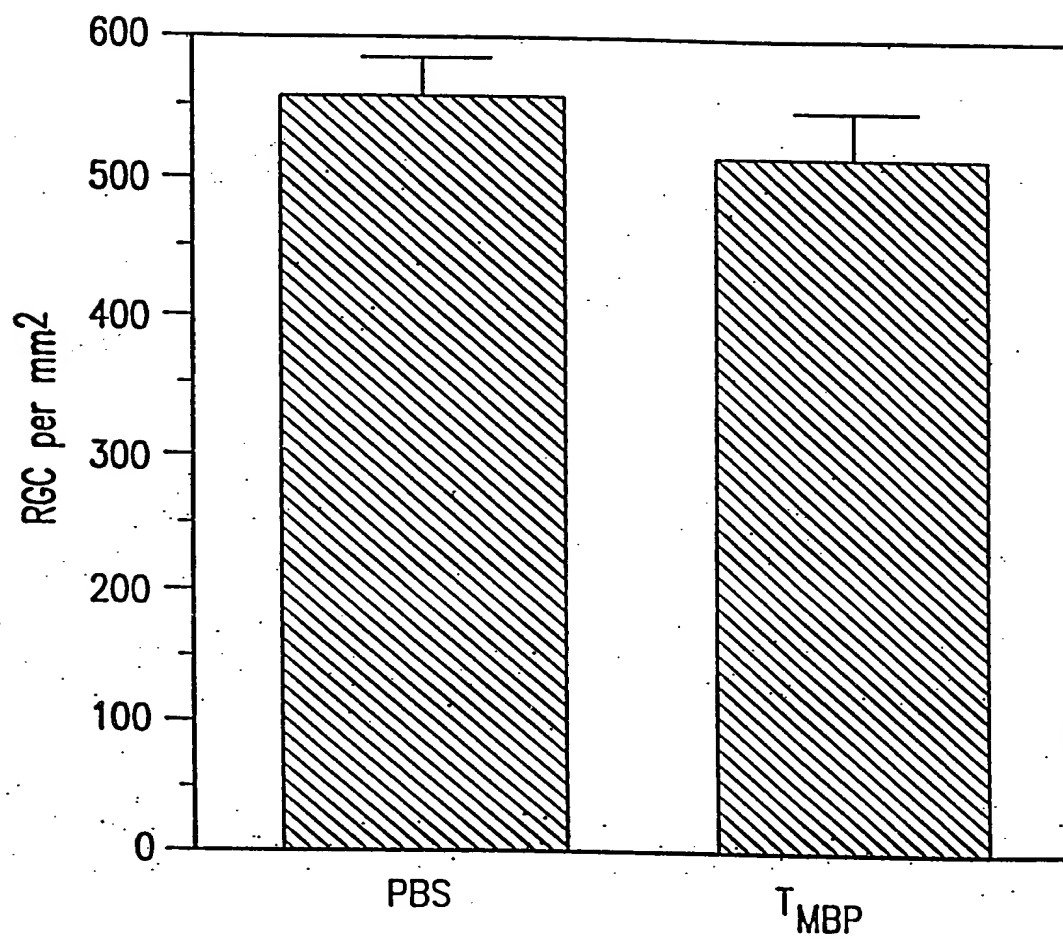


FIG. 4B

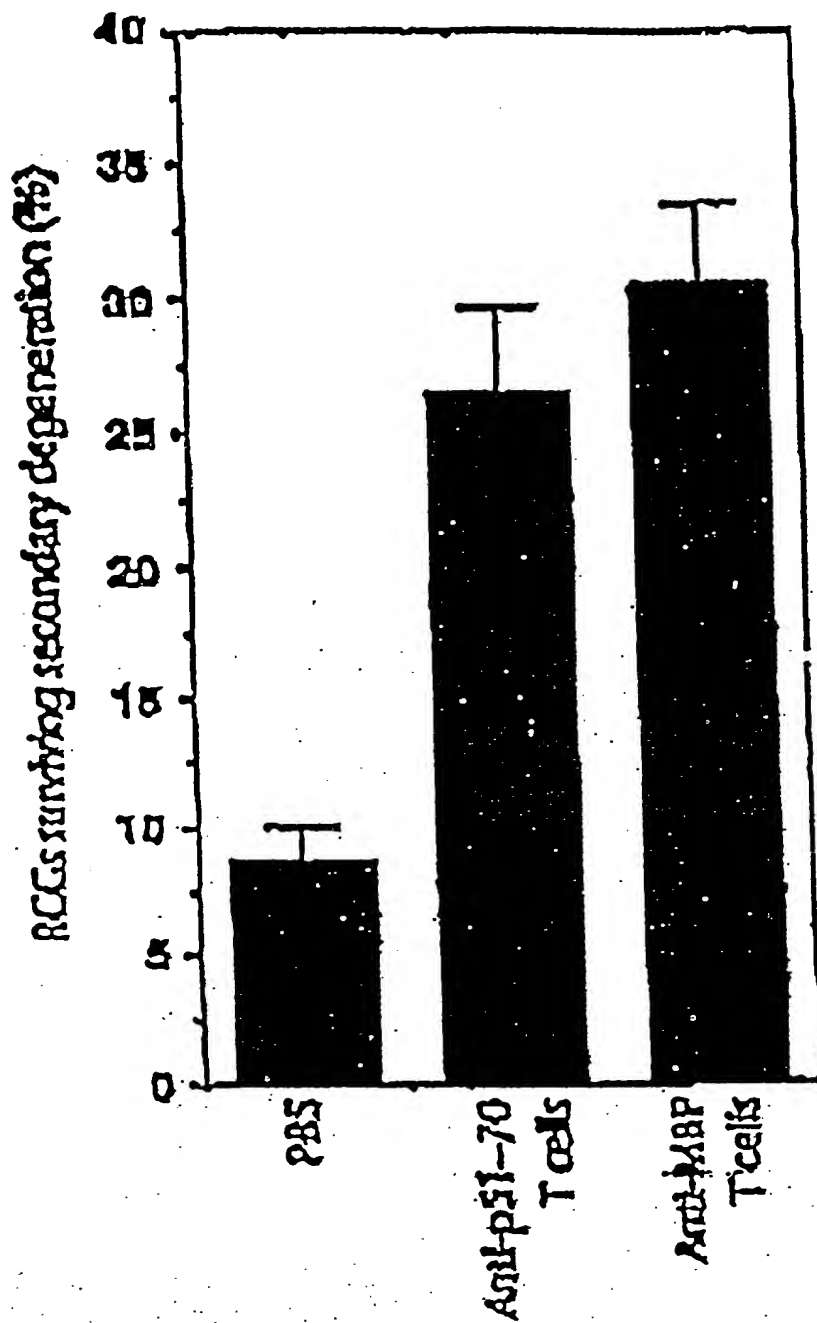


FIG. 5

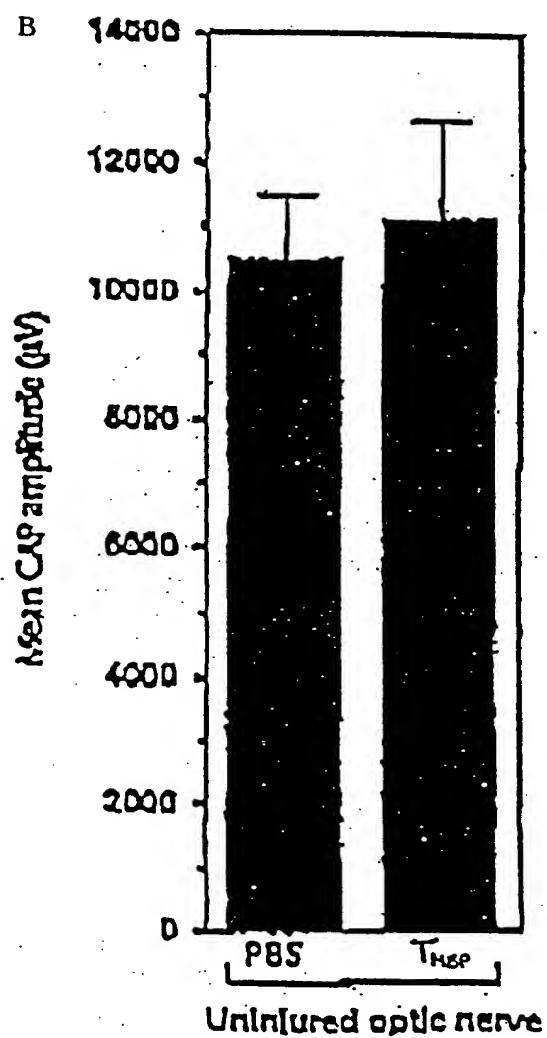
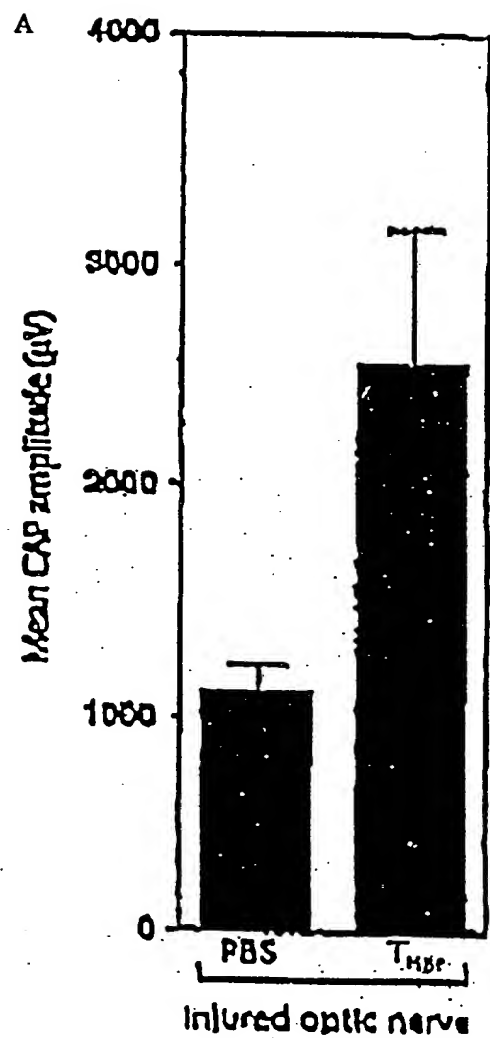


FIG. 6

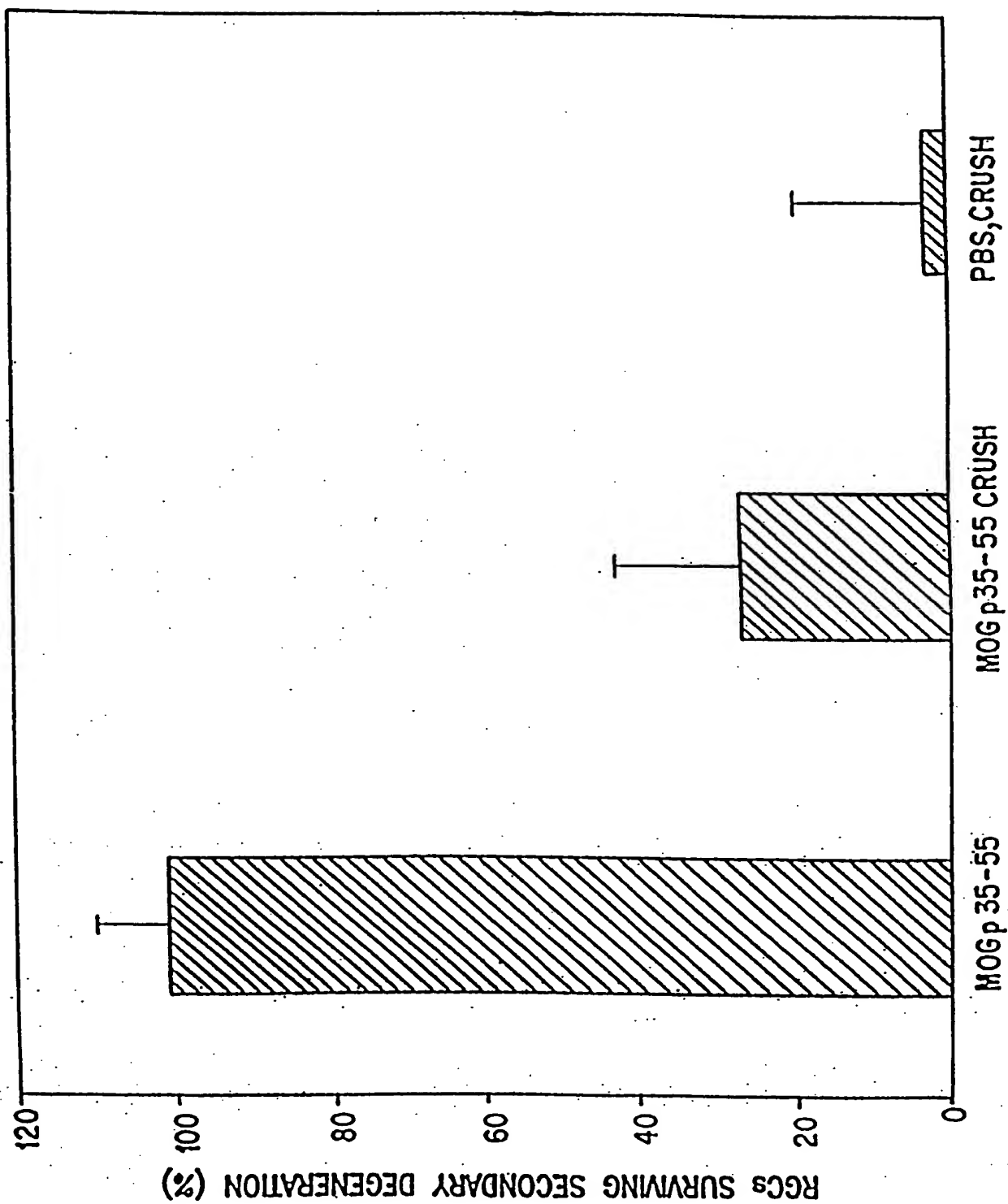


FIG. 7

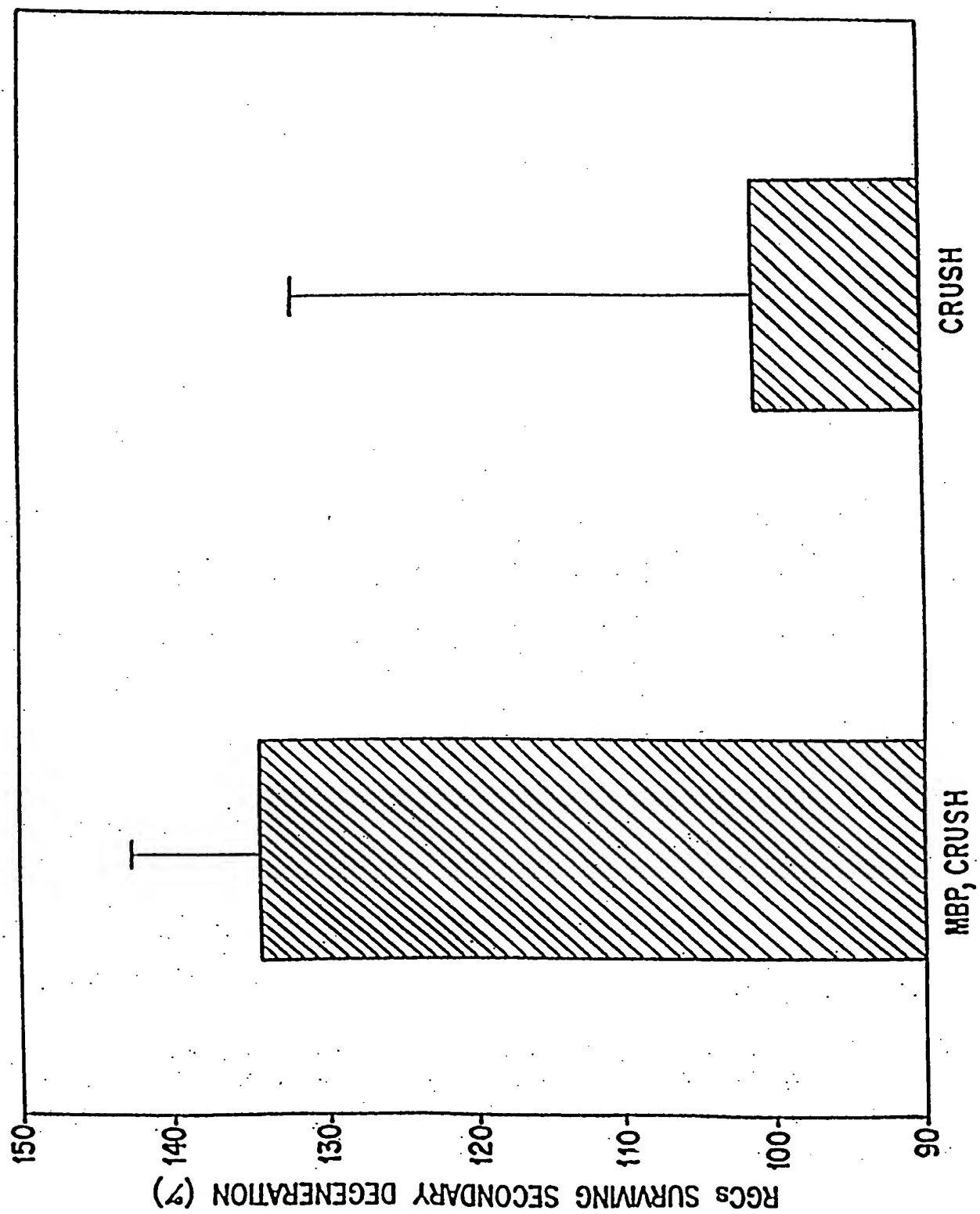


FIG. 8

```
1 ccaagaagat cccacagcag cttccgaagg cctggatgtg atggcatcac agaagagacc
61 ctcacagcga cacggatcca agtacttggc cacagcaagt accatggacc atgcccggca
121 tggcttcctc ccaaggcaca gagacacggg catccttgac tccatcgggc gcttccttag
181 cggtgacagg ggtgcgcccc agcggggctc tggcaaggac tcacacacaa gaactacca
241 ctacggctcc ctgccccaga agtcgcagag gacccaagat gaaaaccag tagtccactt
301 cttcaagaac attgtgacac ctcgtaacac ccctccatcc caaggaaagg ggagaggcct
361 gtccctcagc agatttagct ggggaggaag agacagccgc tctggatctc ccatggcaag
421 acgctgagag cctccctgct cagccttccc gaatcctgcc ctcggttct taatataact
481 gccttaaacy ttttaattcta cttgcaccaa atagctagtt agagcagacc ctctcttaat
541 cccgtggggc tgtgaacgcg gcggggccagc ccacggcacc ctgactggct aaaactgttt
601 gtcccttttt at
```

FIG. 9

1 gaaaacagtg cagccacctc cgagagcctg gatgtgatgg cgtcacagaa gagaccctcc
61 cagaggcacg gatccaagta cctggccaca gcaagtacca tggaccatgc caggcatggc
121 ttcctcccaa ggcacagaga cacgggcatc cttgactcca tcgggcgctt ctttggcggg
181 gacaggggtg cgccaaagcg gggctctggc aaggactcac accacccggc aagaactgct
241 cactatggct ccctgcccc aaggtcacac ggccggaccc aagatgaaaa ccccgtagtc
301 cacttcttca agaacattgt gacgcctcgc acaccacccc cgtcgcaggg aaaggggaga
361 ggactgtccc tgagcagatt tagctggggg gccgaaggcc agagaccagg atttggtac
421 ggaggcagag cgtccgacta taaatcggct cacaagggat tcaagggagt cgatgccag
481 ggcacgcttt ccaaaatttt taagctggga ggaagagata gtcgctctgg atcacccatg
541 gctagacgct gaaaacccac ctggttccgg aatcctgtcc tcagcttctt aatataactg
601 ccttaaaact ttaatccac ttgcccctgt tacctaatta gagcagatga cccctcccct
661 aatgcctgcg gaggttgtga cgtagtaggg tcaggccacg gcagcctacc ggcaatttcc
721 ggccaacagt taaatgagaa catgaaaaca gaaaacgggt aaaactgtcc ctttctgtgt
781 gaagatcacg ttccttcccc cgcaatgtgc ccccagacgc acgtgggtct tcagggggcc
841 aggtgcacag acgtccctcc acgttcaccc ctccaccctt ggactttctt ttcccggtgg
901 ctccggcacc ttgcgctttt gctggtcact gccatggagg cacacagctg cagagacaga
961 gaggacgtgg gcggcagaga ggactgttga catccaagct tcctttgttt ttttttctg
1021 tccttctctc acctcctaaa gttagacttca ttttctctaa caggattaga cagtcaagga
1081 gtggcttact acatgtggga gctttttggt atgtgacatg cgggctgggc agctgttaga
1141 gtccaacgtg gggcagcaaa gagagggggc cacctcccca ggccgtggct gccacacac
1201 cccaatttag tgaattcgcg tgtggcagag ggaggaaaag gaggcaaacg tgggctgggc
1261 aatggcctca cataggaaac agggctcttc tggagatttg gtgatggaga tgtcaagcag
1321 gtggcctctg gacgtcaccc ttgccctgca tgggtggccc agagcagcct ctatgaacaa
1381 cctcgtttcc aaaccacagc ccacagccgg agagtccagg aagacttgcg cactcagagc
1441 agaagggtag gagtccctcta gacagcctcg cagccgcgcc agtcgcccac agacactggc
1501 tgtgaccggg cgtgctggca gcggcagtgc acagtggcca gcactaacc tccctgagaa
1561 gataaccggc tcattcactt cctcccagaa gacgcgtggt agcgagtagg cacaggcgtg
1621 cacctgctcc cgaattactc accgagacac acgggctgag cagacggccc ctgtgatgga
1681 gacaaagagc tcttctgacc atatccttct taacaccgcg tggcatctcc tttcgcgcct
1741 cctccctaa cctactgacc caccttttga ttttagcgca cctgtgattg ataggccttc
1801 caaagagtcc cacgctggca tcaccctccc cgaggacgga gatgaggagt agtcagcgtg
1861 atgcaaaaac gcgtcttctt aatccaattc taattctgaa tgtttcgtgt gggcttaata
1921 ccatgtctat taatatatag cctcgatgat gagagagtta caaagaacaa aactccagac
1981 acaaacctcc aaatttttca gcagaagcac tctgcgtcgc tgagctgagg tcggctctgc
2041 gatccatacg tggccgcacc cacacagcac gtgctgtgac gatggctgaa cggaaagtgt
2101 acactgttcc tgaatattga aataaaacaa taaactttt

FIG. 10

A.

1	taatatctag	ggktttgact	ctgacccgtg	ttggggctct	cacttcatgg	cttctcacgc
61	ttgtgctgca	tatcccacac	caattagacc	caaggatcag	ttggaagttt	ccaggacatc
121	ttcattttat	ttccaccctc	aatccacatt	tccagatgtc	tctgcagcaa	agcgaaattc
181	caggcaagcc	ttagggaaaa	aaggaaaaac	aaagaaaatg	aaacaattgg	cagtgaagg
241	cagaaagaga	agatggagcc	cttagagaag	ggagtatccc	tgagtaggtg	gggaaaaggg
301	gaggagaagg	ggaggaggag	aggaggagga	aagcaggcct	gtccctttaa	gggggttggc
361	tgtcaatcag	aaagcccttt	tcattgcagg	agaagaggac	aaagatactc	agagagaaaa
421	agtaaaagac	cgaagaagga	ggctggagag	accaggatcc	ttccagctga	acaaagtcag
481	ccacaaagca	gactagccag	ccggctacaa	ttggagtcag	agtcccaaag	acatgggtaa
541	gtttcaaaaa	ctttagcatt	gaagattcaa	gaggacacag	g	

B.

1	ctgctttcag	agcctgtgac	ttcttgtgtg	cctctcctgt	ttctcagcaa	catggcatag
61	ggcctgggat	accaggctctg	gggatctcag	ggactcttag	cactttaaga	cacatgtgtt
121	cccaggccct	gggtgtgtcc	tctagtgcc	gaaagatgtt	tcatgctttg	ctgactttgt
181	ataaagtctg	tttgtagctg	ttttgacaga	atctcagcgt	ataactgagg	gtggggacat
241	tagccaagct	gcattatagg	aggacaaaac	tgccatacaa	agtgtccaaa	atcattaagc
301	ctgcattttt	attattggga	gtaatatcaa	acctcctatt	ttccaatttt	catttcttgt
361	cctgtgctag	ctccatcctg	tttggactgc	tcctcccata	tgtaaaactaa	gaagaatcaa
421	gcattctttg	caacaaatac	acacgatgct	caaaaatgtc	caggagcatc	caatttccaa
481	agtttcctcc	acctggaatg	ctcttcacgc	taaaatcctg	tctgacaata	ccagcatctc
541	tggcctgcac	tcattcccttc	ctggaaactcc	aagtgcattt	acctctgttt	accacttact
601	tggctgctg	aattgttagt	tgaaaatatt	aggtctactt	agctaattct	tcctcaggaa
661	attaaagact	cccatatggc	agagtctgtg	tcttttctct	cttcatatcc	cgtataaacac
721	ccagcataat	gctgggcata	tagtgagtat	tccataaata	gttgatgaat	gactaaaata
781	agcaagcaaa	caaacagact	agaacaataa	gaaagaagg	actggatttc	ataatctctc
841	tggcttgcta	tttgaattgc	tgaattatta	ttatttatta	aatatttttt	aaattctggc
901	aataaaaagg	aaggatttat	tttctttctt	tctttttttt	tttcttgaga	cagagtctcg
961	ctcttactgc	ccaggctgga	gtacaatggc	gcaatcttgg	ctcacggcaa	cctccgcctc
1021	ctcctgggtt	taacagattc	tcctgtctca	gcctcctgag	tagctgggat	tacaggcata
1081	cgcccatgcc	cggctaattt	ttgtattttt	agtagagacg	gggttttgcc	atgttggcca
1141	ggctggtctt	gaactcctga	cctcatgtga	tccacctgcc	tcagcctccc	aaagtgtctg
1201	gattacaggc	atgcgccacc	gtgcccggcc	aaagatttat	tttcaagaat	gaaacaaagt
1261	aaggattctg	ggtcaatctc	acatgctgaa	agccaaaacc	tctagccgct	cctgcttttt
1321	gacttcggag	tgcccaactat	ctccgagcct	gtgagcacag	ggcctggcag	aggggtttga
1381	gtggcatgag	ctacctactg	gatgtgcctg	actgtttccc	cttcttcttc	cccaggcttg
1441	ttagagtgtc	gtgcaagatg	tctggtagg	gccccctttg	cttccctggt	ggccactgga
1501	ttgtgtttct	ttgggggtggc	actgttctgt	ggctgtggac	atgaagccct	cactggcaca
1561	gaaaagctaa	ttgagacct	tttctccaaa	aactaccaag	actatgagta	tctcatcaat
1621	gtgtaagtac	ctgccctccc	acacagaccc	atcttttttt	tcctctctc	catcctggag
1681	atagagaact	cttcagtacc	ttagtaacta	gcaggggact	gggggtggagc	cagaccggat
1741	tcccagagtct	tcctctgtg	ca			

FIGS. 11A-B

C.

1	ctagaaaatc	cctagccttg	ttaaggtgct	cgctctgggtg	tatacctcac	ttatgtcggg
61	aaagaagcca	ggctctcaat	taataagatt	ccctgggtctc	gtttgtctac	ctgttaatgc
121	aggatccatg	ccttccagta	tgtcatctat	ggaactgcct	ctttcttctt	cctttatggg
181	gccctcctgc	tggtcgaggg	cttctacacc	accggcgag	tcaggcagat	ctttggcgac
241	tacaagacca	ccatctgcgg	caagggcctg	agcgcaacgg	taacaggggg	ccagaagggg
301	aggggttcca	gaggccaaca	tcaagctcat	tctttggagc	gggtgtgtca	ttgtttggga
361	aaatggctag	gacatcccga	caaggtgatc	atcctcagga	ttttgtggca	ataacaaggg
421	gtgggggaaa	attgggcgcg	agtctgtggc	ctcgccccca	cccaaggctg	ggctcctctc
481	aggggcctgg	catttgagtg	aggaagcgat	ggctgcagcc	gaacgagaag	gtcaggaaga
541	acgtggtgcc	cagctggctt	agcctcacct	ttcaaagggt	ccctaagcaa	atttcttctc
601	aaaacagaaa	gcctgagttt	tgtgggactg	ttgtacaat	cagaccattt	cagaccattc
661	tggttggtatc	cctttgttcc	cttccatgta	ggtagccaaa	gagtggatct	aactggacaa
721	gagtctaaaa	tgctgctcat	gtgattgaga	cttgggcacc	tgagctraga	gggaggatgg
781	ataataaaaa	ttaataata	actccaaggt	aaatttacia	tgttctgg	

D.

1	gacccctctc	attcttcccc	taccatttcc	ccccaccctc	cggtatactg	gggccagtta
61	tctagtagat	actgccaatt	acccttggca	gaggtgccct	gctcactaat	tttatttggg
121	ggagmgccct	ggaacctggt	tttaatgtct	ggcacacgcc	acttccagga	tctcccagtt
181	tgtgtttcta	catctgcagg	ctgatgctga	tttctaacca	acccatgtca	atcattttag
241	tttgtgggca	tcacctatgc	cctgaccgtt	gtgtggctcc	tggtgtttgc	ctgctctgct
301	gtgcctgtgt	acatttactt	caacacctgg	accacctgcc	agtctattgc	cttccccagc
361	aagacctctg	ccagtatagg	cagtctctgt	gctgatgcca	gaatgtatgg	tgagtttaggg
421	tacgggtgct	ttggctctcc	taccactat	ggaagcacta	tattttgggt	tattttctta
481	gtgtaaggag	ggtggtgatt	atgagaaaaa	tataagatga	tgaatgattg	ggtcttagtt
541	tattaatcct	tccctactga	aaccagagag	gtttcttccc	ccggaaggga	acttgggaagt
601	ggtgggagtt	ttcttggcca	ttcacattgg	cctactctag	ttgactgctg	ttcacaaccc
661	caaagcagca	catttcaata	acaaacacaa	ggtttdsacca	ctgttcaata	ccaccttctc
721	ttttttgtaa	acctgtagaa	aagaggatcc	taattgttgg	tagmatccaa	mtttacagcc
781	aggataatta	gagatggaag	aagggtctctg	ggggaaaagtc	tccatgtggc	cccgtaactc
841	cataaagctt	accctgcttg	ctttttgtgt	cttacttagg	tgttctccca	tggaaatgctt
901	tccctggcaa	ggtttgtggc	tccaaccttc	tgtccatctg	caaaacagct	gaggtgagtg
961	ggttatattg	gttatattac	aaggagtag	ctaataccat	acaaattaca	cccatggcct
1021	tcaattttta	ggactgaaa	tttccctttg	ctggattttg	aattagccga	ttgccttcta
1081	caacatgttg	gctaagtgtg	cctgagccaa	tgagcataga	aggtaaaaca	cctcttttct

E.

1	aattagcaca	cagaaaggat	atccaacaca	tacaaagctg	tnntcatgga	ctacactgga
61	gcatattact	gctgttgcaa	gaaacatttc	ttcttctctc	tttcattttc	ctgcagttcc
121	aaatgacctt	ccacctgttt	attgctgcat	ttgtgggggc	tgcagctaca	ctgggtttccc
181	tggtgagttg	actttgaatg	atcttggcaa	gtaaaataggc	ctgagatagt	tgtgggtaca
241	gctattctga	aaggcaagaa	ggtagactgc	ttccatcctt	gaaatgctgg	aggga

FIGS. 11C-E

F.

1	aattctatat	actatcacta	tggtccact	ttggatactc	tccagtggat	ttagttactc
61	atatggaaat	acctgggagg	acctcctaac	attattagaa	ttgttatgat	tataatacaa
121	ygctatgtcc	caggtccttg	tgatagtgtc	acagtgcct	gtgaatgtag	tgtgtcatt
181	gtgcagatta	aaaacctaag	gcactgaagg	gtgaagtgt	ttatctgaag	ttattttata
241	aagcagtgt	cagacaasct	gagctcacag	aactccctgg	cccctactgc	tgaggtttcc
301	atacagagtc	aagtaatttc	tcaccttgta	aaacgaattg	attcattaac	caggggagag
361	ctctactgca	tgatgtggct	gtgtgtctac	agcaagcacc	ctatgactct	aagtcactcg
421	gacatattga	tgtggcaaag	cccaaataat	gttcacttcc	ctgaggaaaa	ctcagtgtca
481	gatcaaacag	aggtgtggaa	taaatcttta	tgatttgatt	ctctgggct	gggcatgag
541	acccatgatg	cctcagagac	atcggacttc	cagtcaagt	tatatggaga	aagccaagcc
601	tgggatgtac	tgctttttgc	agagcatggg	ttttccctt	atttagttat	gattttattt
661	ctacccttcc	tcattcccaa	agggatttga	ggagggagtg	ctttcttttc	tactctcatt
721	cacattctct	cttctgttcc	ctacagctca	ccttcattgt	tgctgccact	tacaactttg
781	ccgtccttaa	actcatgggc	cgaggcacca	agttctgac	ccccgtagaa	atcccccttt
841	ctctaatagc	gaggctctaa	ccacacagcc	tacaatgctg	cgtctcccat	cttaactctt
901	tgcccttgcc	accaactggc	cctcttctta	cttgatgagt	gtaacaagaa	aggagagtct
961	tgcatgtatt	aaggtctctc	tttgactct	ccccctttat	gtacctcttt	tagtcatttt
1021	gcttcatagc	tggttccctg	tagaaatggg	aaatgcctaa	taatatgact	tcccaactgc
1081	aagtcacaaa	ggaatggagg	ctctaattga	atthttcaagc	atctcctgag	gacagaaaag
1141	taattttctc	tcaaagggta	cttccactga	tggaacaaa	gtggaaggaa	agatgctcag
1201	gtacagagaa	ggaatgtctt	tggtcctctt	gccatctata	ggggccaaat	atattctctt
1261	tggtgtacaa	aatggaattc	attctgcgtc	tctctattac	actgaagata	gaagaaaaaa
1321	gaatgtcaga	aaaacaataa	gagcgtttgc	ccaatctgc	ctattgcagc	tgggagaagg
1381	gggtcaaagc	aaggatcttt	caccacacaga	aagagagcac	tgaccccgat	ggcgatggac
1441	tactgaagcc	ctaactcagc	caaccttact	tacagcataa	gggagcgtag	aatctgtgta
1501	gcgaagggg	gcactctggc	ttacacctcg	tacgggaaga	gaaacaggg	cttgcagca
1561	tcttctcact	cccttctcct	tgataacagc	taccatgaca	accctgtggt	ttccaaggag
1621	ctgagaatag	aaggaaacta	gcttacatga	gaacagactg	gcctgaggag	cagcagttgc
1681	tggtggctaa	tggtgtaacc	tgagatggcc	ctctggtaga	cacaggatag	ataactcttt
1741	ggatagcatg	tctttttttc	tggttaattag	ttgtgtactc	tggcctctgt	catatcttca
1801	caatggtgct	catttcatgg	ggtattatcc	attcagtcac	cgtaggtgat	ttgaaggctc
1861	tgatttggtt	tagaatgatg	cacatttcat	gtattccagt	ttgtttatta	cttatttggg
1921	gttgcacag	aaatgtctgg	agaataattc	tttgattatg	actgtttttt	aaactaggaa
1981	aattggacat	taagcatcac	aaatgatatt	aaaaattggc	tagttgaatc	tattgggatt
2041	ttctacaagt	attctgcctt	tgcaaaaaca	gatttgggtga	atttgaatct	caatttgagt
2101	aatctgatcg	ttctttctag	ctaattggaaa	atgattttac	ttagcaatgt	tatcttggtg
2161	tgtaagagt	taggtttaac	ataaagggtta	ttttctcctg	atatagatca	cataacagaa
2221	tgaccagtc	atcagctatt	cagttggtaa	gcttccagtc	atcagctatt	cagttggtaa
2281	gcttcccagg	aaaaaggaca	ggcagaaaga	gtttgagacc	tgaatagctc	ccagatttca
2341	gtcttttaat	gtttttgtta	actttgggtt	aaaaaaaaaa	aaagtctgat	tggttttaat
2401	tgaaggaaag	atttgtacta	cagttctttt	gttgtaaaga	gttggtgtgt	tcttttcccc
2461	caaagtgggt	tcagcaatat	ttaaggagat	gtaagagctt	tacaaaaaga	cacttgatac
2521	ttgttttcaa	accagtatac	aagataagct	tccaggctgc	atagaaggag	gagagggaaa
2581	atgttttgta	agaaaccaat	caagataaag	gacagtgaag	taatccgtac	cttggttttt
2641	gttttgattt	aataacataa	caaataacca	acccttccct	gaaaacctca	catgcataca
2701	tacacatata	tacacacaca	aagagagtta	atcaactgaa	agtgttccct	catttctgat
2761	atagaattgc	aatttttaaca	cacataaagg	ataaactttt	agaacttat	cttacaaagt
2821	gtattttata	aaattaaaga	aaataaaatt	aagaatgttc	tcaatcaaac	atcgtgtcct
2881	ttgagtgaat	tgttctattt	gacttcacaa	tagaaactta	ataatcgtac	cttctcaaga

FIG. 11F

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1  atggaaatgt tctgtatttg tgttgtctga tgagataacc actaactgta gtgctattga
61 gcatttgaaa catggctagt gtaatcaatg aaccaaattt ttaattttat ttaattgtaa
121 ttaattttta gtggccacat gcagggagtg actgctgcat tggacagcac ggctctaaat
181 tgagcctttt ttccttattt ggtgaggcat actgacctta agattgggaa gtctattttt
241 ggaacctgct accaatgctg gtctcacact tgcaattctc agctgagcca agaggtgaga
301 gaaaggatcat ttccattcc aagatctcac tctccctgtg gacctgagg aaactggcaa
361 gtgatgtgaa ggctggagag cgtgtcctgt atgctggctc tgtcccttct gcctgtgttg
421 actgacatag ttagttgctg ccttgctgg tctcccttcc tccaaccttg cctctctgag
481 cacacctgac attcatctca tgacttccct aaaaacattc tttgggaaca agaaactaac
541 aaatcccaag tgacctatca catatacāaa catacagggc agagtttgga ttcgcggtag
601 aagaaaggga ggtagacat taagaagaat ggtctgggta tgacagttgt gagataatag
661 aaacaggaaa aagaaatcta agttttcttt ctttttttaa gaaccaataa taatttctct
721 cttttgacta gtcagttagg ctggggtgga ttggaggaaag cttacatatt ccatgaacca
781 gcctcttctc aaggctcctg aagtgtcctt gccccactga ttagccctta gaagaccctt
841 caaagggttg atctccagga gggagtgggg gaggaagacc ctgtaccagg cagcctctgc
901 tccattgctc tgggggggtg ggggaagaaa accctgggtc tccctcagt ctgtagccct
961 tttgtgtgag tgcctggcaa ggggtgacgt gggctgttcc tgccgggcaca gctgcagcaa
1021 ttaccggagt ggaggcaggg cccaggcagc actgccctcc aagatcttcc cttgggcttt
1081 tcagcagtaa ggggacatgc accccaaggg cctccacttg gcctgacctt gctgcggggg
1141 ctctctgtcc ccaggaacag tagagatggc aagcttatcg agacctctc tgcccagctg
1201 cctctgtccc ttctctctcc tctctctctc ccaagtgtct tccagctatg caggtaaagac
1261 atgttttttt tcttgccctg gggagaccct gaaaacagaa aggctagttt cctgggggtt
1321 agctccttca aacatcctca agttgggtata ttatctttct aaaacataga cctactgaca
1381 tgcctccctt cctcagaaac ctcccggtgg tggttctttac agccttcaag atggagtcca
1441 gactcttttt tttttttggg acagagtctc cctctgttgc tcaggctgga gtgcagtggc
1501 atgatctcgg ctcaactgcaa cctcagcctc cctgggttcaa gcgattctcc tgacttggcc
1561 tcccaagtag cggagactac aggcgcctgc caccacaccc agctaaattt gttcttttct
1621 ttcttttttt ttttttttgg gatttttaga cagacggggt ttcacatgtt ggccaggatg
1681 gtctcgatct cttgacctgc tgcaccgccc gcctcagctt cccaaagtac tgggattatg
1741 ggcgtgagcc actgcactag gctaaatttt tttattttta gtagagatgg gggttcacca
1801 tgttggccag gctgggtcgg aaccctgtac ctcaagtggg ctgcccctct cagcttccca
1861 aagttctgag attacaggca tgagccattg cgtctgacct agactcctta atgtgactaa
1921 ctccaggctt tccttggaact acttcttact tgtctttcca gcttgtctt ttcacctctc
1981 caattgagat aaaataataa caacctcttg gagtctctat caggattaca tgaaatgaga
2041 tatgtaacat gcttagcagt gcctgtccat agtaaatctc aataaatgtt tgtggaatta
2101 taatatcttg tcatgtttga gactttgctc tgcataatca ggcaccagta gggttttata
2161 aaggaaaccg tctgtcacgt gcagaggaga aataaacaga aagtttccca tcctcaggga
2221 gccacctgac tgacagaggc acagtgcac cactctccag gtctagggga gaaagcagcc
2281 ttatttctta gtagctcaga atctgacttg agaaacacat ccacatagaa aaaaacaagg
2341 aactttttcg ggtcagggtc cgggacccac agtgagggtg aagatacagg ggaaggaaga
2401 gggaaataga gccatcccca ggggtggaaga tctcagaaga gaatttgga aacaaggat
2461 gaacaaggac tgaatagtga gaagtgtgg agagacagct aaagtagatg gagtgtcaaa
2521 accaaaaacct ctaagggtag aataggcagc aatttgcca agtcctaaca gggaggccca
2581 taggaggatt caacctcaag atgctgtgcc acattccaag agggaaacct aaggctgggc
2641 tgaagagtca gagatggcta cagctggcaa aaagatgggc agatgctgag aggagatgat
2701 tgctaaaatg ttctgtccag gacattcaca gtatctctat aaccagagtc tttttgtcg
2761 ttgttgttct caagaaggaa acttgaggcc ggggtgtgtg gtttatgccc ataattccca
2821 cgctttgggg ccaaggcagg cggatcacct gaggtcagga gttcgagacc agcctggcca
2881 acagtgtgaa acctcatctt tactaaaaat acaaaaatta gctggatgag gcggtagggtg
2941 cctgtaatgc cagctactcg ggaggctgag gcaggagaat cacttgaacc tgggaggcgg
3001 aggttgcagg gaggcggagg ttgcagttag ccaagattgc accactgcac tccagcctgg

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FIG. 12

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3061 gcgacagaga gtaagactgt ctcaaaaaat aaatgaataa ataaaaagga agaagaagaa
3121 gaagaacaat tgcaatcctc cctggctcta gaatgtcatt taaaagtcca gtgtcttctt
3181 ccttccctgt tttgaagcag cccttctcat gacaggcttg cttgccaagg ttccctctga
3241 ccttaaatct ctcccttttg gtgtcttgga cagggcagtt cagagtata ggaccaagac
3301 accctatccg ggctctgggc ggggatgaag tgggaattgcc atgtcgcata tctcctggga
3361 agaacgctac aggcattggag gtgggggtgt accgcccccc ctctcttagg gtgggtctac
3421 tctacagaaa tggcaaggac caagatggag accaggcacc tgaatatcgg ggcgggacag
3481 agctgctgaa agatgctatt ggtgagggaa aggtgactct caggatccgg aatgtaagggt
3541 tctcagatga aggaggtttc acctgcttct tccgagatca ttcttaccac gaggaggcag
3601 caatggaatt gaaagtagaa ggtgagtagt gccatataat attaggtatt aactgttggg
3661 tggccaagaa caattattct ctcaactgag atgagatccc tcaacccaaa catctcagtc
3721 ctgggaatga tttccataaa aatgtacaca tcaataaaca gaaactcatg cttagggatg
3781 tctgttgcat cattattcag agtagcaaga aaattgggat caaaatcaat gcctttgagt
3841 aggtaatgta cagaatgaac aatggtagcc atactgtgaa tattatgcag ggattaaaaa
3901 gattatttta gcaactaggcc agatggtttg gggggctcct ctaaggtatt attgagtgat
3961 aagagcaagc tgctgtagga tacaataaaca aaaacaaaac cctagggcat ggtggtttgc
4021 ctgcagccta ctacaggaggc tgagacggga ggctggcttg agcccagggg tttgcagtta
4081 cagtgcagcta tgattgcacc actgcactcc aacccgggtg acagagcaaa gaccttcacc
4141 cccactccct acccgtctct aaaaaaaaaca aaaacaaaaa caaaaaaac cttgggcccc
4201 gcgccgtggc tcacgcctgt aatcccagca ctgtgggagg ccgaggtggg cagatcacaa
4261 ggtcaggaga tcgagaccat cctggctaaa acggtgaaac cccgtctcta ctaaaaatac
4321 aaaaaaaaaa aaaaaattta gccaggcatg gtagcaggcg cctgtagtcc cagctactcg
4381 ggaggctgag gcaggagaat ggctgaacc cgggaagcgg ggttgacgtg agccaaaatc
4441 cttccactgc actccagcat gggggacaca gcgagactcc gtctcaaaaa aaaaaaaaaa
4501 accctgtatt tgtgagcgca cacacacaca cacacctgtg cttgggtcta
4561 gtgaataagc aagtaaataca aatgtctaaa tataattata gaaaggagat gtcacctttt
4621 ggctgtacct ccactatttc attctgcaga attgcagaat ttcttttttt tttcctttct
4681 ttctttttct tttttttttg acacagagtc tcgctctgta acccaggctg gagtgcattg
4741 gcgccctccg cctcctgggt tcaagtgtt ctccctgcctc agcctcccga gtagctggga
4801 ttacagggtgc ccaccaccac acccagctaa tttttgtatt tttagtagag acagggttct
4861 accaggttgc caaggttggt ctcaaacctc tgacctcagg tgatccactc gcctcagact
4921 cccaaagtgc tgggattaca ggcatgagcc atggtgcccg gcctcagaat ttcattttca
4981 acatgttttg catgatgggt gattttggag aatatttttt gctctatcgc aggatgatta
5041 agatgtggac aaggtgaagc cgatggaggg ggagctttga aagttacttg ctattttaatt
5101 gaggaactaa actgctttga gagcctgggg gtcagatcct ctgccttttc ctccctccca
5161 cctgcagtgc aaacatcaga caattgatca ctattgtatc ttggaggtgg gagtaccat
5221 tgcagtgtcg ggaccagaag atggcattgt atgtggaaca acaaagcact atttctagag
5281 actgcctgca gggatatgga aatagcttta tgtgtctcag aatgttcttc atacagctgt
5341 ttttattggg gaaattctac ttgccgaaaa gtttgatagt gagaccctct ccagtttgca
5401 gatttttctc ctccctgctc aacaacttcc tagctcagta actgcctctc ccaacaaaact
5461 ccctcagttt caccacacca aaaaaggaag acaagccggg tgcggtgggt cacacctata
5521 atcccaaac tttgggaggc cgaggcgggt ggatccacct gaggtcggga gttcgagact
5581 agcctgacca acatggagaa accctgtctc tactaaaaac acaaaattag cctggcgtgg
5641 tggcgcatte ctgtaatccc agctgggagg ctgaggcagg agaatcgctt gaaccccgga
5701 ggcggaggtt gcagtgagcc aagatcgctc cattacactc cagtctgggc aagaaaagtg
5761 gaactccatc tccaaaaaaa aaaaaaaaac aacaaggaag acaaaaagaa aagcagctaa
5821 agactttgcc tcaggggaga aagttctctt ttgggttgct atccacatc caacctctg
5881 ttccacctc tcgtctgca tgcttaagaa actgttttac aagtaataaa gggacgcttt
5941 gtctaggctt tggagccagg aagttgagac aaatttagga atgagatgaa gtaatggat
6001 tattgcaagt ctacaggtgt actacctctg ctctttctct gaagagtttc taatttctct
6061 tgtttactta tttttttctt gtcatttttg ggattttatt actagttgtc tctaactcct

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FIG. 12 (cont.)

6121	tcttttaaatt	cttcattatg	aaacataaaa	acaaatgcc	ggcgcggcag	ctcacgcctg
6181	taatcccagc	actttgggag	gccgaagcgg	gcagatcacc	cgggtcagga	gttcgagacc
6241	agcctgatca	acatggagaa	accccgctctc	tactaaaaaa	tacaaaatta	gctaggcgctg
6301	gtggcacatg	ccagtaatcc	cagctacttg	agagactgag	gcaggagaat	cgcttgaacc
6361	gggaggcaga	ggttgcggtg	agccaagatc	gcgccattgc	actccagcct	gggcaacaag
6421	agcaaaactc	tgtctcaaaa	aaaaaaaaacc	acatacaaac	cagagataat	attataatga
6481	gcctccaagt	gcctaccacc	ttgctgcagc	acttgtcaat	ccagggaacca	cccacctcac
6541	cggctcccca	ctcattacca	ccctccccta	ctcaattact	gaggtaaatac	ctaggcagca
6601	tgatcatttc	ttttttttct	ttttatttat	tttgagacag	gatctgtctc	tgtcacccag
6661	gctggagtg	agtggcatat	ctctgctcac	tgagcctct	gcctcccggg	cagaagccat
6721	ctgtcccac	cagcctacat	agtagctggg	accacaggca	cacaccacca	cacactgcta
6781	atgtttttgta	ttttttgtag	agactgggtt	ttaccatgtt	gatcaggctg	gtctcaaaact
6841	cctaggctca	agcaatcctc	ccacctcggc	ctcccaaagt	gctagaatta	caggcgcgag
6901	ccactgcacc	cagcgaagaa	cacttttttaa	aaaataaata	ggccggggcg	ggtggctcac
6961	acctgtaatc	ccagtaactt	gggagcccaa	ggagggcgaa	tcatgagggtc	aagagattga
7021	gaccatccta	agtaacatgg	tgaaccacca	tttctactac	aaatacaaaa	acaaaattag
7081	actggcggtg	tggcaggcgc	ctgtagtccc	agctacttgg	gagctgaggc	aggagaatgg
7141	agtgaaacccg	ggaggcgag	cttgcaagtga	gctgagatca	tgccactgca	ctccccctg
7201	gggcaacaga	gtgagactcc	caaaaaaaaaa	aaaaaaagcc	ccccctcccc	acacacaata
7261	atataaataa	ataaataacc	acaatactat	tatcacatct	tacaaactca	acaaaaattt
7321	cttaatatca	tcaaataccc	agtttgtgtt	caaattttcc	tgattgtttc	ataaatatac
7381	tcttacagtt	ggtttctttt	agcgagattc	aaatgagacc	cacctgttga	cctttgccct
7441	taggggtttcc	caggggtctga	attttgttga	cgacattccc	atgttgctat	gtaatacggg
7501	cctccatgcc	ctgtgttttt	ctgtaaactg	atagatgtgg	aggtgcaatg	acatttgtgt
7561	ttgatttact	ttggcaataa	tagttcatca	gtgatactct	atacttcttg	ttgctttaca
7621	tccggagggt	gataatgtct	gcttttctct	cttttctaata	tatttgtgaa	aggaaaaatg
7681	tgggggggtg	ggagaaaaaa	acccttaagt	acatactcgc	taaatcacat	tgctacaggt
7741	aacttccatt	aagaacttga	aagtaaagg	agctgcattt	tcccctaggg	aacacaatga
7801	tagacaggag	ccttagtcta	cagcttgaag	gattgttaatt	atacctaagc	aaccctctcg
7861	gaccagttta	atgttattag	ctgtgatgta	tccctacctt	tgatgtcatt	atccttactt
7921	agctccctta	aagcagagat	caagatgaaa	agggcttcag	ctgcagcatg	gcacatggag
7981	attagagtgg	ggcttttgga	tgctgaggag	cagacctaga	atgggaaata	gatgggagcc
8041	acagaagtga	aggtccccct	ccctcattgc	tcaacctact	ccacatctcc	aggtctgcac
8101	atctgttcag	ttactgaate	ctgtgtaagc	taccttcttt	ttcttttttc	ttttatttat
8161	ttattttattt	tttttttgag	atggagtttt	gctcttggtta	cccaggctgg	agtgcaatgg
8221	tgcaatctcg	gctcactgca	ccctccaact	cccagggttca	tgcaattctc	ctccctcagc
8281	cttccaagta	gctgggatta	caggctgcac	caccatgtct	ggctaatttt	tgaaaaatca
8341	gtagagagag	ggtttcacca	tgttggccaa	gccggtctcg	aactcctgac	ctcaagtgat
8401	ccaccacact	tggcctccca	aaatgctggg	attacagggtg	tgagccacca	tgcccgtgt
8461	aaactacctt	cttaaaagct	ctagaagagg	gcttttaacc	ttttgttgg	tgctatgcac
8521	cttccgcaag	ctgatgaagt	tgatagacct	atctcagaat	tttttttttt	tttttgagac
8581	agtgtctcac	tctgtcacc	aggattgggt	gcagtggcac	gatcatgggt	cattgcagcc
8641	tccacctccc	aggctcaagt	gatcctcctg	actcagcctc	ttgaatagct	gagaccacag
8701	gcttgtgtca	ccatgcccag	gtaattttta	attttttttc	gtagaggcag	ggtctcacat
8761	tatgttgccc	agtctggcct	cgagaactcc	tgggctcaag	caatcttctc	gccttgggct
8821	cccaaagtgg	tgggattaca	ggggagagcc	accacaccta	gccaggagga	tgtttttaaat
8881	acaccaaata	aaacatttat	acccaaatac	agttatccaa	atattaaatt	aacaagagtt
8941	aggggtgacc	tatttaattag	tgtaatttcc	aaatagtaat	gaacataagt	gatagtttga
9001	gatttctgtg	acttttctaa	tgtgacgtga	aaatatattgt	gatttttctt	tttctttttt
9061	ttttttgaga	tggagtttcc	ctctgttg	ccaggctgga	gtgcaatggc	aagatctcgg
9121	ctcacctcaa	cctccgcctc	ctgggttcaa	gcgattctcc	tgctcagcc	tcttgagtag

FIG. 12 (cont.)

9181 ctgggattac aggactgtgc caccacgtcc agctaatttt gtatttttag tagaaacagg
 9241 gtttctccat gttggtcagg ctggctctga actcccaacc tcaggcgatc cgcccgcctc
 9301 ggcctcccaa agtgctggga ttacaggtgt gagccaccgc acctggccaa tatttgtgat
 9361 ttttattgac gacaaagtca aaggttctct tcatattatt gtggtgtatc gcctacaagc
 9421 ataattaaaa taaacactaa atttcagttt aaagtttact gaaaataaat atgtattttt
 9481 tattccctat ttaagctttg aatcccctga ctctctatac cattaccact gtcctagttc
 9541 aggttcatgt tgttttttac ttttaattgtt atcacagtct cttaacattt ctcctatgt
 9601 tctccagtc tgtaggtgct aaatctgacg tggctacttc tcagcttggga atccttcagt
 9661 gcaccaccac agccttgaac tacatatttg aaatacatat ttattttcag taaactttaa
 9721 actgaaattt agtggtttatt ttaattatgc ttgtaggcga tacaccacaa taatatgaag
 9781 agaacctttg actttgtcgt caataaaaaag tcccttgagg ggacttcaga tgtaagtccc
 9841 ttagtgtctc gttaaaactc ccccgagctg acccaataca caatcttgac ttttaaccac
 9901 ttgtcattct aatcactag catttctgg aaaaaaagc catttttctt tcagggtctaa
 9961 gctcagggac caattctgtg tcaccttctt tgaatcctga tgatattcac ttctttattt
 10021 gacctgattt attgggcccc agacaccatg ctgagtggtg gggattcagc tctggacaat
 10081 gtcaaatgtc agtcctgcct ttcagatcct ttctactggg tgagccctgg agtgctggtt
 10141 ctctcgcggg tgcctgctgt gctcctcctg cagatcactc ttggcctcgt cttcctctgc
 10201 ctgcagtaca gactgagagg tacagggcag aggggtgggt gatcaggatc ctttctttaa
 10261 atgagctggc ttcttggagc tacaccactt aacatgtatt tgtgagtgac ttctgggttc
 10321 agaagttctt ctcactattg agtgataaag aaaaaaata actccatgat gaaagagttt
 10381 tacatcttac ggaatgcttt catatgaata atcggaccta gcatttccct atgagctaac
 10441 tatgccatat agtaacccca ttttacagag gatacaactg aggccaggag tagttcagtg
 10501 acttactcaa accgatataa cttataagtg gtagagctga ggcctctgta tcatacctag
 10561 cagctccatg caacttggga gagtgtgagc ttcgagtgca gacaggtcta gctattagg
 10621 agttttgaat aaagatactg aagtgaagt ccttaccaca cagtaggcgt tcgaaaattg
 10681 tttcctcttt ctcatttcaa cactgaggac tcagggttcag ctgctgatga agctcctctt
 10741 ttttgccatg agctttcatt ctgagccttc tctcctacc aagtgtctcc ccaatgccag
 10801 agcaggaaga gtcttcaact ccccaaatgc cccacctccc atttgttact aagaggagag
 10861 gagaaagtag caaggagggt atgggggaatg ttctggggga atgggtgttg gtgcgatcaa
 10921 caacaaagtc ctttctctca ccttgaattc atcccagatg cctgcttgtt tacttcttc
 10981 acacaaaaaa aggccttcag cctcatggc tgagcagaaa gaatctgaat gttagagtca
 11041 ggagcctgg gtttgaattc catctcaggt actgaactct atagcaaaat tcttagattc
 11101 tccaagcttc agttgccttg tctgtcaaat agagaaaaca tccttcgtcc taaattgtag
 11161 ggaggattaa agtcatgcaa agtgccctact acaaatccag tcacaaagta gctagctact
 11221 cactaaatgt tcagctcctc cctcctcatt cagatgggaa gtggctttag ataaacaaag
 11281 tggcaacgca gtgggctgga gcagctctgt gaactgagaa tccaagaaaa gggcggaaga
 11341 gcagctggga tgtattggat gcttgtgctg gcttggagca ttgctcacat tctttattcg
 11401 ctattgtatc tagactatag cttagagaaag agccgcaacc attggcttta aatccagtgc
 11461 tcttctact ctctgaggt tgtttccagg ctgcagagaa atagcctgca caaggggccc
 11521 aggcgctggg tgtgggagggt tccccaccga gagccagaa atgcaggaa taaaatgttg
 11581 cctttttcta ttttaggaaa acttcgagca gagatagggt agttccagtc atcgtttctc
 11641 ccaattcttg ccttttggtt ttttggcata acggaaatgg tccattctt ggaccgtctc
 11701 tccctctcaa taccctgttt tccctcagt tccctttct ctacagtggg tgtgtcgtgc
 11761 ctagaacaag ttttaagtaa ttaaataaca aagactcagg ataaaaggat cctttttgga
 11821 gtgccctact aaatccattt ccatttggtt ctctttcaga gaatctccac cggacttttg
 11881 gtaagtcccg gcatgtctag gccctcccag gtcaacttgg tatttcaact tagttccagt
 11941 cacctggggg aacaaggacc cctggctcct ggttgagtc cttcctctct tctctttct
 12001 ttcttttaaat aagaagtc atgtgatttag gattggtaaa atcataataa aaatactcat
 12061 gtactgtttt tatgtgccag gcactattct aactacttta caaaaacgtt atcttattct
 12121 gtttaactcc ttatgcacat gatctctctt ttcagggaatg ccaaacagaa ggtaaataga
 12181 tcgtttacac gtaaacctga tgtctgggtg gggaggtgaa acaaacagaa acaagacaca

FIG. 12 (cont.)

12241	actgtatcac	ctgtacttat	atttctgctt	tacaaactca	ggatgtttcc	atgagtacag
12301	aacatgacta	atcagagaag	acctcataga	ggaatagaaa	agccaccaag	ccccactagg
12361	aattgacccc	tcaaggacat	ggtttctagc	ctttttgttc	actgcagatt	gccaatgcc
12421	taaagataat	ggcaacagaa	gagcacccaa	atatttgtaa	gataaatgtt	gcagacacta
12481	gaaggtgtca	ttagggcaca	gatggtacct	tctctgagca	aacttccttc	acagctcctc
12541	ctcccagggc	tgtaggtgac	tctactcttg	tcacctggca	cacagagttc	tatcgtacga
12601	tttaggaat	tagaccagt	tgtggaccac	acacacacac	atctttacac	acccaaagag
12661	gaggaatagt	atctttgttt	tggaggactt	gactatgaaa	ggtcttaact	cctttttgta
12721	ccatgaatct	ctctggcact	ccagtgaagt	ctaaaggacc	cctttgcaga	atgtttttaa
12781	atatacacat	aaaatagaac	acataggatt	gcaaaaacaa	tcattgtact	aaaatacagt
12841	tatcaaccga	taatcacatt	tgtgatatag	taacataaat	gtttcttttt	tttttttttg
12901	gaggcagagt	ttggctcttg	tcacccaggc	tggagtgcaa	tggcgcgcatc	taggctcact
12961	gaaacctctg	cctcccgggt	tcaagcgatt	ctcagcctcc	tgagttagctg	ggagtacagg
13021	tgcccggcac	cacacccagc	taatttttgt	attttttagta	gagactaggt	ttcaccaggt
13081	tggccaggct	ggcctcgaac	tcctgacctc	aggtgatcca	cctgccttgg	cctcccaaag
13141	tgctgggatt	acgggcatga	gccaccgtgc	ccggccataa	atatttcttt	agccaaagta
13201	atacatthaag	taatgtagca	gcaagtctaa	taacctgtaa	tttctttctt	tctttctttc
13261	tttctttttt	tttgagatga	agtttttttg	agatggagt	caatggcaca	atctcggtct
13321	actgcaacct	ccacctcctg	ggttcaagcg	attctcctgc	ctcagcctcc	caagttgctg
13381	gaactacagg	cgcattgccac	catgcccagc	taatttttgt	attttttagta	gagacggggt
13441	ttcaccatgt	tggccaggct	ggtcctgaac	ccctgacctc	aggtgatctg	cctgccttgg
13501	ccttccaaag	tgctgggatt	acaggcatga	gccaccaggc	ccagcccatt	aacctttaat
13561	ttcaacatac	taataaacat	aaacagtatt	tcaagatttc	tgcaataact	ctaattggga
13621	tgaaaacatc	tgtggcttcc	attggtaatt	aagtcacagg	tactgctcat	attgtggtta
13681	gttgtaaaat	gttttggttt	gttttggttt	ttccaagact	tgggggaatg	ggtgttggtg
13741	ggatcaacaa	gagtcctgct	ctgtggccca	ggctggagt	caggggcagg	atcttggtc
13801	actgcaacct	ccgcctccca	ggttcaagcg	attctcctgc	ctcagcctcc	tgagttagctg
13861	gcattacagg	catgtgccac	cacgcccagc	taatttttac	attttttagta	gagatggggt
13921	ttcaccatgt	tggcctggct	ggtcctgaac	tcttggcctc	atgatccacc	cgtctcggac
13981	tcccagagt	ttgggattac	aggcatgagc	caccacacct	ggcagttggt	acatttttaa
14041	tgaagaaaaa	tgttaaatcc	agttattgaa	aataaggagg	cagtactttt	ctcatccaag
14101	ttctggact	ttctgaattt	tgtccccaga	gtccttttgt	gttctaggac	cccaggttaa
14161	ggaacccaaa	aagacagggtg	ggtggggcat	gagggggaac	acatgttaat	ccctgtttgt
14221	tctggtgaac	aattcagatc	cccactttct	gagggtgccc	tgttgggaag	taaccctgtt
14281	tgtaatgtg	cgggttcttg	gacccttggt	tgccttgatc	atctgctaca	actggctaca
14341	tcgaagacta	gcaggtgcag	tggctgggca	gcaggcaaga	ccaccaataa	gtgggggacc
14401	aagtcagctc	tgaatgggaa	gccaaaagag	aatagaacca	ggactcaaga	ttaggggagc
14461	tgggatttcc	ttattcctct	gtccccatgc	ccaacccag	gctcttctga	gaaactgtga
14521	agagaaccac	ttactggatc	tgtgggatcc	cccagtggaa	agggcagtg	gggtcactcc
14581	aaatgtccat	agggaggatg	tggggaaggt	gctattcatc	ttccactaat	cacatatttg
14641	tttctttttg	ttttcagggc	aattccttga	agagctacgt	aagttctctt	ctctctgtta
14701	taagcagaga	ataaaaagcc	aggaaaagga	gacagaagca	acaagaggaa	gaggcgggct
14761	attgagggat	cacattccca	gaggaaagga	ggagctggag	agcctgggtg	gaggggaagac
14821	tcctcctggg	aggtagaggg	caaagaagcc	agctgttaga	gacacattta	caggtggcag
14881	agaagctgga	ggcactccta	tctgccacct	gatccattcc	tccttactg	cccctaagca
14941	ggaatccaac	cctagctggg	ctcattgccc	attccaagag	aactgcccag	tgcctcacct
15001	ctcagatcaa	ccattgaggc	aggaatggag	acaagatgac	cccaagggct	tttcttctcc
15061	ctagtccaat	ggttttatga	tacaaactac	tgacatacgt	ttttcaagtt	attttctcct
15121	tcttctagga	aatcccttct	gagtgatgtc	acatcttggc	aggggtggag	gagagcctgg
15181	ttgcccaggg	atttgcctct	ggggacatct	catccatcaa	ggtgcacact	cactggcatc
15241	tttgctatgg	ggacattcca	atttgcactt	tcagggaacac	tctgaattcc	aagtagaatt

FIG. 12 (cont.)

15301 gatttccctt cttctgtcat ctaccttttc tcttcatttt cccattttta ttacccttct
 15361 ttccattttt ctctccagtc ttccacctgg aagccctctc tggctaagga caggcaggtg
 15421 cccctctctc catcagagga cacctgtact ggagagcaac acaggatggt ctctgccatg
 15481 aactggaggc caggaatctc ctactgaaa attacagtat ggtaactttg caaatggtgg
 15541 ttgtttcttc caagactcca gccctgattg cgcaaaactg aaaggcatgt gaagggaagg
 15601 aagaggaaga gtgcaaaaaca ttgaagagag agctgagtga gctgaagagt gaggatatga
 15661 gtagcccaa cccaaacctg gagatgggga gaaacctaca gaatactagc cagagctcct
 15721 ccttgtcttg gcagcctact agggacctgg ggaagcaaaa acgaaagctg ggcaacatgc
 15781 ctgctttaga atgttttctt tctacttaca catcttccac aggtctcaga atctttcctt
 15841 cctctcatcc tttctccta tctacatac tatcagagta tccactgttt attcaacaac
 15901 tactacttga tggtcagaca caaacaaca agctagggtgc taattaataa agatacaggt
 15961 tttggcggg tgcgggtggt cagcctgta atcccagcac tttgggaggc cgaggcgggc
 16021 gaatcacgag gtcaggagtt caagaccagc ctggccaaca tggtgaaacc ccatctctac
 16081 taaaaataca aacaattaac tgagcatagt ggtgggcacc tataatacca gctactccg
 16141 aggtgaggc aggagaatcg cttgaacca ggaggcagag gttgcagtga gctgagatcg
 16201 cgccactgca ctctagccgg agtgacagag taagactctg tctcaaaaat aaataaataa
 16261 ataaataaat aaataaatpa ataaataaaa aataataata caagttttca taagcacact
 16321 tctaaccctt tgtcttttat gtatttctt ccttatccac gcacctgtct cctctactc
 16381 cagcctcatt accccagagg tcagtcctca ggaaaactaa acacaaagaa agagctcagt
 16441 cagaaaggcc atttatttat gtttcaagat gctcactgcc tcctttgttt tgtctcctt
 16501 gcaggccttc tctcttaggc ctcttctcct gggggtatgg atcctggggg gagattgatc
 16561 acctccatgc ttccattcct ccccagccat agtggggaca tcatgagaga agccaagcca
 16621 ctggcccagg atcacccggc atttatggtg gctgctctgg cacaggctct tgcctttata
 16681 gcccctccag tgatccataa ggccctcttt ctcccaaaag gagaggtcac agatagggca
 16741 aaggtagctc ttctgcttcc agtgggtctg ctgggtgtctg accagcctgg aaaatgagct
 16801 gaaagacttg ctgcaatgga agcagtagtt gggcggtctc gtgaggtggc ccttctggtg
 16861 tctggagaga taggatttct tgctaaaagt caaagaacaa tgggggcaac agaagacatt
 16921 gagtcttgag ggcttcaactg gatgagagtt ggatctggca tctgacaga gggttccagt
 16981 gatgggtgcc tgggtcctgg tcacagggtgc ttggttctta agtacagatg cctgggtctg
 17041 ggccatagga cctcagttc taaatatggg ttccctgggac ctggccactg gtgcatggtt
 17101 cacatccaaa agccoctgga tggacctctg gcttctggcg atgggtgtct ggaattcagc
 17161 ctgggtgcct ggaatcctca aagtacactc ctgggtttcca tccactggct cctgggtttg
 17221 gtgtatcttc tgggtggcgtt tgagctcaga ctgggtcccg aagctcttcc cacacacaga
 17281 gcatgaatgg ggccggtaac ccagatggac gcggcggtga cgacttagtc cagaagcatc
 17341 acagtaggtc ttgtcacaga gcgtgcaaca gaagggcctc tcccaagat gcatgogtct
 17401 gtgatactg agggacttgg ggctccgaaa caacttccca cactgactgc agctgttagt
 17461 cagcttggga ttgtgaacaa actggtggct atagaggtag gagcgctgc tgaacattt
 17521 ggcacaggtg tagcaaaa

FIG. 12 (cont.)

1 tttgtatgtc attgcaggat tcatgctttc cagtgtgtca tctatggaac tgctcttttc
61 ttcttctttt atggggccct cctgctggct gagggcttct acaccaccgg cgctgtcagg
121 cagatctttg gcgactacaa gaccaccatc tgcggcaagg gcctgagcgc aacggtaaca
181 gggggccaga aggggagggg ttacagaggc caacatcaag ctcatctttt ggagcgggtg
241 tgtcattggt tgggaaaatg gctaggacat cccgacaagg tgatcatcct caggattttg
301 tggcaataac aagggggtgg gggacaa

FIG. 13

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1  ctgtatcagt gtcctcgtc gcctcactgt acttcacgga agagacttgg ttgactggcc
61  acttggagcg gaatcaggag acattcccaa ctacagagaga ctgagcccta gctcgccac
121  ttgctggaca agatgatatt ccttaccacc ctgctctgtg tttggataat gatttcagct
181  tctcgagggg ggcactgggg tgcctggatg ccctcgcca tctcagcctt cgagggcacg
241  tgtgtctcca tccccgccc tttcgacttc ccggatgagc tcagaccggc tgtggtacat
301  ggcgtctggt atttcaacag tccctacccc aagaactacc cgccagtggg cttcaagtcc
361  cgcacacaag tgggtccacga gagcttccag ggccgtagcc gcctgttggg agacctgggc
421  ctacgaaact gcacctgct tctcagcacg ctgagccctg agctgggagg gaaatactat
481  ttccgaggtg acctgggcgg ctacaaccag tacaccttct cggagcacag cgtcctggac
541  atcatcaaca cccccaacat cgtggtgccc ccagaagtgg tggcaggaac ggaagtagag
601  gtcagctgca tgggtgccga caactgcccga gagctgcgcc ctgagctgag ctggctgggc
661  cagagggggc taggggagcc cactgttctg ggtcggctgc gggaggatga aggcacctgg
721  gtgcagggtg ccttcccaa caccaccttg cagttcgagg gttacgccag tctggacgtc
781  tgtcaggctg ccttcccaa caccaccttg cagttcgagg gttacgccag tctggacgtc
841  aagtaccccc cgggtgattgt ggagatgaat tctctgtgg aggccattga gggctccac
901  gtcagcctgc tctgtggggc tgacagcaac ccgccaccgc tgctgacttg gatcgggat
961  gggatggtgt tgagggaggg agttgctgag agcctgtacc tggatctgga ggaggtgacc
1021  ccagcagagg acggcatcta tgcttgccct gcagagaatg cctatggcca ggacaaccgc
1081  acggtggagc tgagcgtcat gtatgcacct tggaaagcca cagtgaatgg gacggtggtg
1141  gcggtagagg gggagacagt ctccatcctg tgttccacac agagcaaccc ggacctatt
1201  ctcaccatct tcaaggagaa gcagatcctg gccacggtca tctatgagag tcagctgcag
1261  ctggaactcc ctgcagtgc gcccagggac gatggggagt actggtgtgt agctgagaac
1321  cagtatggcc agagagccac cgccttcaac ctgtctgtgg agtttgctcc cataatcctt
1381  ctggaatcgc actgtgcagc ggccagagac accgtgcagt gcctgtgtgt ggtaaaatcc
1441  aacccggaac cctccgtggc ctttgagctg ccttcccgca acgtgactgt gaacgagaca
1501  gagagggagt ttgtgtactc agagcgcagc ggcctcctgc tcaccagcat cctcacgtc
1561  cggggtcagg cccaagccc accccgcgtc atttgtacct ccaggaacct ctacggcacc
1621  cagagcctcg agctgccttt ccagggagca caccgactga tgtgggcaa aatcgccct
1681  gtgggtgctg tggtcgcctt tgccatcctg attgccattg tctgctacat caccagaca
1741  agaagaaaaa agaacgtcac agagagcccc agcttctcag cgggagacaa cctcatgtc
1801  ctgtacagcc ccgaattccg aatctctgga gcacctgata agtatgagag tgagaagcgc
1861  ctggggtccg agaggaggct gctgggcctt aggggggaac cccagaaact ggacctcagt
1921  tattccact cagacctggg gaaacgacc accaaggaca gctacaccct gacagaggag
1981  ctggctgagt acgcagaaat ccgagtcaag tga

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FIG. 14

1 masqkrpsqr hgskylatas tmdharhgfl prhrdtgild sigrffggdr gapkrqsgkd
61 shhpartahy gslpqkshgr tqdenpvvhf fknivtprtp ppsqgkgrgl slsrfswgae
121 gqrpqfgygg rasdyksahk gfkqvdaqgt lskifklggr dsrsgspmar r

FIG. 15

1 mglleccarc lvgapfaslv atglcffgva lfcgcgheal tgtekliety fsknyqdyey
61 linvihafqy viygtasfff lygalllaeg fyttgavrqi fgdyktticg kglsatvtgg
121 qkgrgsrgqh qahslervch clgkwlgphd kityaltvvw llvfacsavp vyiyfntwtt
181 cqsiafpskt sasigslcad armygvlpwn afpgkvcgsn llsicktaef qmtfhlfiaa
241 fvgaaatlvs lltfmiaaty nfavlkmlgr gtkf

FIG. 16

1 maslsrpslp sclcsfllll llqvsssyag qfrvigprhp iralvgdeve lpcrispgkn
61 atgmevgwyr ppfsrvvhly rngkdqgdq apeyrgrtel lkdaigegkv tlrirnvrf
121 deggftcfr dhsyqeeaaam elkvedpfyw vspgvlvlla vlpvlllqit lglvflclqy
181 rlrqklraei enlhrtfdph flrvpcwkit lfvi vplgp lvaliicynw lhrrlagqfl
241 eelrnpf

FIG. 17